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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,582	09/05/2003	Yohji Maruyama	16869G-087400US	7931	
20350	7590 05/18/2005		EXAMINER		
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER			EVANS, JEFFERSON A		
EIGHTH FL		ART UNIT	PAPER NUMBER		
SAN FRAN	CISCO, CA 94111-3834		2652		
			DATE MAILED: 05/18/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	Application No. Applicant(s)					
Office Action Summary		10/656	5,582	MARUYAMA ET	MARUYAMA ET AL.			
		Exami	ner	Art Unit				
		Jeffers	on A. Evans	2652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed or	n						
2a) <u></u>								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	on of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.5 and 6 is/are rejected. 7) Claim(s) 2-4 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application	on Papers							
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on <u>05 September 2003</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment	(s)							
2) D Notice 3) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO/ No(s)/Mail Date <u>9-5-2003</u> .		Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PT0 	O-152)			

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Claims 1 to 6 are pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

- 2. The abstract of the disclosure is objected to because the reference numerals should be put in parenthesis or removed.
- 3. The title of the invention is not adequately descriptive. A new title is required that is more clearly indicative of the invention to which the claims are directed by making reference to the first and second protective films.

Drawings

4. Figure 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

5. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The scope and meaning of the language of claim 6 is unclear and not readily determined. The two dimensions referenced, the dimension of surface asperity and the dimension of a floating fluctuation are both dependent on such a variety of factors such as to be uncertain at any particular operational moment. Does the reference to surface asperity refer to a maximum asperity or an average asperity? Does floating fluctuation refer to a distance between the magnetic head and the disk?

In addition, it would appear that any head disk interface would inherently meet this limitation in the sense that the distance between the head and the base level of the disk would be the flying height of the head, the distance between the head and the asperity tops, plus the asperity height.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1, 5, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Inoue et al (U.S. 6,400,531). Inoue discloses a read unit 3, a write unit 2, a first protective film 41, and a second protective film 42. The first protective film is formed

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from SiN and the second protective film is formed from CF, i.e., fluorocarbon.

Fluorocarbon will exhibit a lower coefficient of linear expansion than SiN.

Allowable Subject Matter

- 8. Claims 2 to 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jefferson A. Evans
Primary Examiner
Art Unit 2652

May 15, 2005

JAE